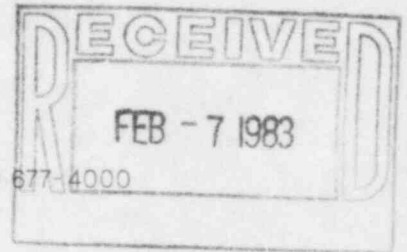




Burns and Roe, Inc.

185 Crossways Park Drive ■ Woodbury, New York 11797 ■ Telephone (516) 677-4000

TWX 510-221-2195 ■ Cable BURNS ROE WDBY



Main Office
550 Kinderkamack Road
Oradell, New Jersey 07649
(201) 265-2000

Subject: Work Order 3900/4000
Washington Public Power Supply System
WNP-2
Potential Reportable Deficiency
Section Modules Error in ADLPIPE

January 28, 1983
BRG0-83-001

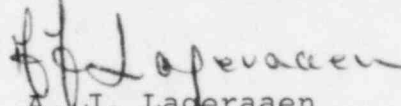
US Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive
Suite 1000
Arlington, Texas 76011

Attention: Mr. J. P. Collins, Regional Administrator

Gentlemen:

Per requirement of Burns and Roe Project Procedure WNP-2-ED-003 Reporting of Defects and Non-Compliance (Nuclear Projects), the review committee determined that the subject deficiency is Potential Reportable and should therefore notify NRC accordingly. This letter confirms this notification in our telecon today, January 28, 1983. An interium report resulting from the review committee's meeting is attached.

Very truly yours,


A.J. Lageraen
Licensing Supervisor

AJL/jmb
Attachment

cc: Mr. R. Johnson - WPPSS - 1 w/1

8303280156 830128
PDR ADOCK 05000397
S PDR

18:19

DEFECT AND NONCOMPLIANCE EVALUATION REPORT

WNP-2-ED-003

BURNS AND ROE, INC.

(Address) Woodbury, New York

Project WNP-2 Evaluation Report # 83-01

Work Order 3900 Date 1/17/83

Specific Area of Concern Section Modulus Error in ADLPIPE

Outside Contractor Involved (if any) None

1. Description of Potential Defect or Noncompliance: There is an error in ADLPIPE, a pipe stress analysis program, where the section modulus is used for stresses in reduced branch outlets. In calculating the bending stresses for the reduced size branch, the ADLPIPE uses the pipe run section modulus for the reduced branch. This error applies only when the "YEAR" parameter (columns 31-40) is input as "1972" on the ADLPIPE "Class" card for ASME III, Class 2 and 3 analysis.
2. Date and Method of Discovery: Memo from T. Butler (Burns and Roe) to O. Michejda (Burns and Roe) dated 12/2/82, which identified the error to Burns and Roe Stress Department.
3. Analysis of Safety Implication: The calculated stresses in the branch connection may not be conservative and, therefore, some tees or branches may be overstressed. Burns and Roe, therefore, initiated a program to review all ASME, Section III, Class 2 pipe systems which have used the 1972 version of ADLPIPE for stress calculations.
4. Corrective Action:
5. Required Review and Individual Determination:

	Signature/ Date	Reportable	Not Reportable	Engineering Study Req'd
Cog. Engineering Manager	<u>[Signature]</u>	_____	_____	✓
Project QA Group Supv.	<u>[Signature]</u>	_____	_____	✓
Cog. Group Supervisor	<u>[Signature]</u>	_____	_____	✓
Licensing Supervisor	<u>[Signature]</u>	_____	_____	✓
Initiating Employee	_____	_____	_____	_____

6. Evaluation by Vice President of Engineering and Design: (if Req'd)
 - a. Further Review Req'd: Engineering Study to be completed by: Feb 15, 1983
- Determination of reportability to be made after evaluation: Possibly
- NRC to be informed of a Potential Deviation - Generic issue
- Not currently considered a Potential Deviation

ER Kemmell
Signature

1/25/83
Date

ORIGINAL
[Signature]

Certified True Copy

NRC Notified by H. J. Lagavaren Date Jan 28-83 Time 11 AM

b. Defect or Noncompliance is :

Not Reportable Reportable Check as 10CFR21
Appropriate Potential 10CFR50,55(e)

c. Other Facilities which may be affected:

Comments _____

Signature Date Time

Action to be Taken _____

Licensing Supervisor Signature Date Time